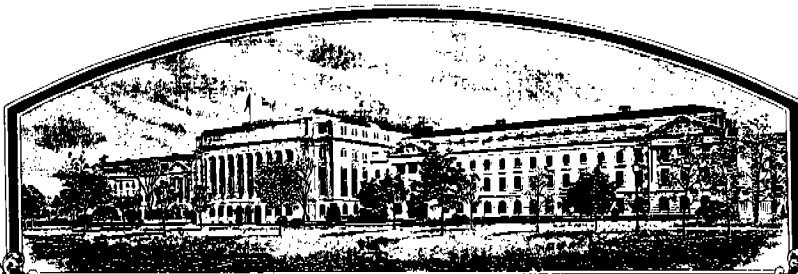


No.



7200106

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

John A. Howden

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PUMPKIN

'Howden'

In Testimony Whereof, I have hereunto set
my hand and caused the seal of the Plant
Variety Protection Office to be affixed
at the City of Washington
this 31st day of May in
the year of our Lord one thousand nine
hundred and seventy-seven

Attest:

R. J. Rolfe
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John A. Howden
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION HOWDEN	2. KIND NAME PUMPKIN	FOR OFFICIAL USE ONLY PVPO NUMBER 72106 <i>bw</i>	
3. GENUS AND SPECIES NAME <i>1/5</i> PEPO	4. FAMILY NAME (Botanical) CUCURBITA	FILING DATE <i>March 20, 1972</i>	TIME 11:00 <i>(A.M.)</i>
	5. DATE OF DETERMINATION 1960 - 1971	FEE RECEIVED \$750.00	CHARGES
6. NAME OF APPLICANT(S) JOHN A. HOWDEN	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Rannapo Road Sheffield, Massachusetts 01257	8. TELEPHONE AREA CODE AND NUMBER (413) 229-8481	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)		10. STATE OF INCORPORATION	11. DATE OF INCORPORATION

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 12A. Exhibit A, Origin and Breeding History of the Variety (See Section 52, P.L. 91-577)
- R/S* ☒ 12B. Exhibit B, Botanical Description of the Variety
- ☒ 12C. Exhibit C, Objective Description of the Variety
- ☒ 12D. Exhibit D, Data Indicative of Novelty
- ☒ 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. (See Section 52, P.L. 91-577).

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO *R/S*

14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

March 8 1972
(DATE)

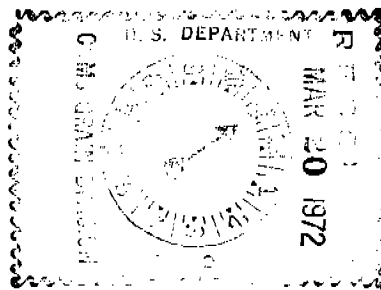
John A. Howden
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

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INSTRUCTIONS



GENERAL: Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety.
- 12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.
- 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

HOWDEN FARM

TEL. 413-229-8481

SHEFFIELD, MASSACHUSETTS 01257

Exhibit A

PV # 7200106

GENEALOGY OF THE HOWDEN PUMPKIN

The first specimens were recognized in 1960 as being unusually dark in color, in a field of very variable Connecticut Field pumpkins which appeared to have some mixture of another variety in it.

From this first cross other traits appeared and seed from these specimens were grown together in isolation and selected over the years until now the Howden variety breeds true as described.

If necessary, I offer as reference:

Mr. Joseph Harris
Joseph Harris Seed Company
Rochester, New York 14624

He and some members of his firm are familiar with this variety, especially his Mr. Ken Ralph who has seen my field of this variety.

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HOWDEN FARM

TEL. 413-229-8481

SHEFFIELD, MASSACHUSETTS 01257

Exhibit #B R/S

PV # 7200106

DESCRIPTION of the "HOWDEN PUMPKIN"

A large pumpkin with a smooth, slightly-ribbed, very deep orange-colored shell and with thick firm flesh of a rich orange color. It has a heavy dark strong stem, a hard shell and excellent keeping qualities. It has a desirable uniformly round shape; slightly flattened on top and bottom, the height averaging slightly greater than the width with a very few flatter specimens.

It grows on a trailing vine, the characteristics of which are the same as other varieties of pumpkins of the Pepo Cucurbita family.

Compared to the well-known Connecticut Field pumpkin this variety is equal or larger in size when grown under the same conditions. It is much thicker-fleshed, thus a much heavier pumpkin. It has a much darker orange-colored shell and richer orange-colored flesh. It has stronger, heavier stems and keeps better.

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EXHIBIT D
Howden Pumpkin

The differences in the Howden Pumpkin as compared to the Connecticut Field Pumpkin, to which it is most similar, are as follows:

1. The Howden Pumpkin has a much darker, richer orange color. This corresponds to the color on the Royal Horticultural Color Chart on Page 155 listed as Indian Orange No. 713/1, as contrasted to the Connecticut Field Pumpkin which corresponds to the color on page 101 listed as yellow ochre No. 07 to 07/1.
2. The Howden Pumpkin has a darker, heavier stem with branching base, which prevents it from breaking away from the fruit because it is rooted into the very flesh. As one person described it, "A stem which grows into the pumpkin."
3. The Howden Pumpkin has a thicker flesh, thus making it a heavier pumpkin; the thicker flesh also helps maintain a more even shape with fewer mishapen fruits.
4. The ribbing is more prominent.
5. The Howden Pumpkin has a much harder rind, giving it superior handling and keeping qualities. It keeps much better than any other pumpkin. While no disease resistance is credited to it, its excellent keeping quality may be due in part to a resistance to storage rot.

As the Howden Pumpkin is an open variety, there is variation in size and some variation in shape and prominence of ribbing. The other characteristics listed are quite stable.

Color photos accompanying this show the color, stem and ribbing. Please file them with this description.

Pumpkin application No. 7200106 "Howden."

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HOWDEN FARM

TEL. 413-229-8481

SHEFFIELD, MASSACHUSETTS 01257

Exhibit E

PV # 7200106

Office of Plant Certification
U. S. Department of Agriculture
Hyattsville, Maryland 20782

THIS IS TO STATE THAT I, JOHN A. HOWDEN OF
HOWDEN FARM, SHEFFIELD, MASSACHUSETTS, AM THE OWNER,
BREEDER AND DEVELOPER OF THE HOWDEN PUMPKIN.

(Signed)

John A. Howden
JOHN A. HOWDEN

Dated:
March 7, 1972
Sheffield,
Massachusetts

Subscribed and sworn to before me.

Carlton W. French
Notary Public

My comm. expires 7/16/76

00009

A S S I G N M E N T

THIS AGREEMENT, made on the dates set forth below, having retroactive effect to April 15, 1998, by Bruce M. Howden, as co-administrator of the estate of John A. Howden, residing at 32 North Champlain Street, Burlington, VT 05401-4320 and Richard A. Howden, as co-administrator of the estate of John A. Howden, residing at 3000 Shore Drive, L.H., Crawfordsville, IN 47933 (hereinafter jointly referred to as the Assignor), witnesseth:

WHEREAS, the said John A. Howden and Virginia J. Howden are the owners of all right, title and interest in and to Plant Variety Protection Certificate No. 9200044 for the "Howden Biggie" pumpkin (hereinafter referred to as "CERTIFICATE");

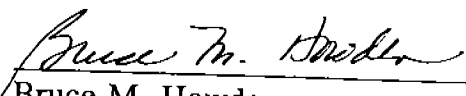
WHEREAS, John A. Howden died on September 11, 1997 and the Assignor was duly appointed as co-administrators of the estate of John A. Howden by the Berkshire County (Massachusetts) Probate and Family Court Department; and

WHEREAS, the said Bruce M. Howden and Richard A. Howden, individually, having residence addresses as set forth above (hereinafter jointly referred to as Assignee), are the heirs-at-law of the estate of John A. Howden;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient considerations, the receipt of which is hereby acknowledged, the said Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto the

said Assignee, its successors, legal representatives and assigns, the entire right, title and interest of John A. Howden in and to said CERTIFICATE, the same to be held and enjoyed by the said Assignee for its own use and behoof and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which said CERTIFICATE may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

AND for the same consideration, the said Assignor hereby covenants and agrees to and with the said Assignee, its successors, legal representatives and assigns, that the said Assignor will, whenever counsel of the said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said CERTIFICATE is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the maintenance, enforcement and defense of said CERTIFICATE, at the cost and expense of the said Assignee, its successors, legal representatives and assigns.

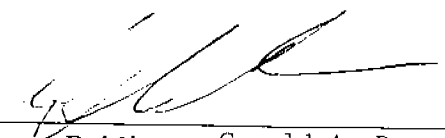

Bruce M. Howden

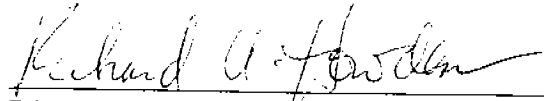
STATE OF Massachusetts)
)
COUNTY OF Berkshire) ss.

On this 27th day of May, 1998, personally before me came Bruce M. Howden, known to me, and known to me to be the person described and who signed the annexed Assignment, and, being duly sworn,

acknowledged that he executed the same.

(SEAL)

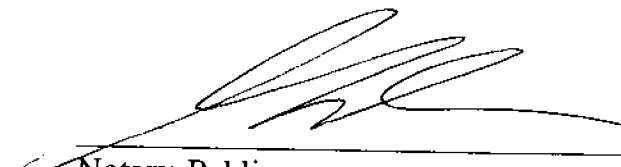

Notary Public - Gerald A. Denmark
My Commission Expires: 7/27/01


Richard A. Howden

STATE OF Massachusetts)
)
COUNTY OF Berkshire) ss.

On this 27th day of May 1998, personally before me came Richard A. Howden, known to me, and known to me to be the person described and who signed the annexed Assignment, and, being duly sworn, acknowledged that he executed the same.

(SEAL)


Notary Public - Gerald A. Denmark
My Commission Expires: 7/27/01

OBJECTIVE DESCRIPTION OF VARIETY
PUMPKIN/SQUASH/GOURD (CUCURBITA SPP.)

NAME OF APPLICANT(S) JOHN A HOWDEN	VARIETY NAME OR TEMPORARY DESIGNATION HOWDEN
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) RANNAP RD SHEFFIELD MASS, 01257	FOR OFFICIAL USE ONLY PVPO NUMBER 7200106

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. SPECIES:

1 = LAGENARIA 2 = MAXIMA 3 = MIXTA 4 = MOSCHATA 5 = PEPO 6 = OTHER (Specify) _____

2. KIND (According to use):

1 = PUMPKIN 2 = SQUASH 3 = GOURD

3. TYPE:

1 = SUMMER (Vegetable Marrow) 2 = WINTER (Boston Marrow)

4. COTYLEDON:

MM. LONG MM. WIDE

Apex: 1 = TAPERED 2 = ROUNDED 3 = NOTCHED Veining: 1 = OBSCURE 2 = PLAINLY VISIBLE
3 = PROMINENT

1 = LIGHT GREEN 2 = GRAY-GREEN 3 = MEDIUM GREEN 4 = DARK GREEN

5. PLANT:

1 = BUSH 2 = SEMI-BUSH 3 = LONG VINES 1 = PILOSE 2 = PRICKLY 3 = GLABROUS

6. MAIN STEM:

1 = ROUND 2 = ANGLED MM. DIAMETER AT MID-POINT OF FIRST INTERNODE CM. AVERAGE LENGTH

AVERAGE NUMBER OF INTERNODES

7. LEAVES:

Shape: 1 = OVATE 2 = ORBICULAR
3 = RENIFORM 4 = RETUSE

Shape: 1 = NOT LOBED 2 = SHALLOW LOBED
3 = DEEP LOBED

Margin: 1 = ENTIRE 2 = DENTICULATE 3 = DENTATE Margin: 1 = FLAT 2 = FRILLED

CM. WIDE CM. LONG Surface: 1 = SMOOTH 2 = BLISTERED

Dorsal Surface: } 1 = GLABROUS 2 = SOFT HAIRY 3 = BRISTLED
 Ventral Surface: }

1 = LIGHT GREEN 2 = GRAY-GREEN
3 = MEDIUM GREEN 4 = DARK GREEN

1 = NOT BLOTCHED 2 = BLOTCHED WITH GRAY

CM. PETIOLE LENGTH

8a. FLOWER - Pistillate:

CM. DIAMETER Ovary: 1 = DRUM-LIKE 3 = FUSIFORM
2 = TURBINATE Pedicel: CM. LENGTH

Margin: 1 = STRAIGHT 2 = CURVED Margin: 1 = PLAIN 2 = FRILLED Sepals: MM. WIDTH Sepals: MM. LENGTH

Color: 1 = WHITE 2 = LEMON YELLOW 3 = MID-YELLOW 4 = DEEP YELLOW 5 = ORANGE

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8b. FLOWER - Staminate:

 Sepals: MM LENGTH Sepals: MM WIDTH Pedicel: CM LENGTH Color: 1 = WHITE 2 = LEMON YELLOW 3 = MID-YELLOW 4 = DEEP YELLOW 5 = ORANGE

9. FRUIT (Market Maturity)

 CM LENGTH CM WIDTH (Stem end) CM WIDTH (Blossom end) GM AVERAGE WEIGHT Shape according to variety type: 1 = ACORN 2 = BANANA 3 = BUTTERCUP 4 = BUTTERNUT
5 = CONNECTICUT FIELD 6 = CROOKNECK 7 = HUBBARD 8 = SCALLOP
9 = STRAIGHTNECK 10 = OTHER (Specify) _____ Apex: 1 = DEPRESSED 2 = FLATTENED Base: 3 = ROUNDED 4 = TAPER POINTED Ribs: 1 = NONE 2 = INCONSPICUOUS 3 = PROMINANT Rib Furrows: 1 = SHALLOW 2 = MEDIUM DEEP Rib Furrows: 1 = NARROW 2 = MEDIUM WIDE 3 = WIDE Fruit Surface: 1 = SMOOTH 2 = FINE WRINKLE 3 = SHALLOWLY WAVY Warts: 1 = NONE 2 = FEW 3 = MANY Blossom Scar Button: 1 = DEPRESSED 2 = SLIGHTLY EXTENDED 3 = RAISED ACORN

10. RIND

 MM THICKNESS AT MEDIAL 1 = SOFT 2 = HARD 3 = WOODY & TOUGH COLOR PATTERN: 1 = REGULAR 2 = IRREGULAR

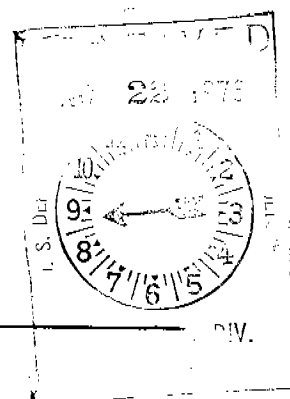
COLORS: (Select two when necessary, i.e. Grayish-Buff)

 01 = WHITE 02 = CREAM 03 = YELLOW 04 = BUFF 05 = BROWN 06 = BRONZE 07 = GREEN 08 = ORANGE
09 = PINK 10 = RED 11 = BLUE 12 = GRAY 13 = BLACK 14 = OTHER (Specify) _____ SELF OR GROUND

PATTERN:

 STREAKS STRIPES SPOTS BLOTCHES LACE OTHER (Specify) _____

LOCATION OF PATTERN COLORS:

 1 = NOT SPECIFIC 2 = STEM END HALF 3 = BLOSSOM END HALF 4 = ACORN OR TORBAN 5 = OTHER (Specify) _____

11. FLESH

 Thickness: MM BLOSSOM END Thickness: MM MEDIAL Thickness: MM STEM END

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7200106

<input type="checkbox"/> 2	Texture: 1 = FINE 2 = GRANULAR 3 = LUMPY 4 = STRINGY	<input type="checkbox"/> 2	Texture: 1 = SOFT 2 = FIRM 3 = BRITTLE
<input type="checkbox"/> 2	Texture: 1 = DRY 2 = MOIST 3 = JUICY	<input type="checkbox"/> 2	Flavor: 1 = INSIPID 2 = SLIGHTLY SWEET 3 = SWEET
<input type="checkbox"/> 3	Quality: 1 = INEDIBLE 2 = GOOD 3 = EXCELLENT	<input type="checkbox"/> 0 <input type="checkbox"/> 3 <input type="checkbox"/> 0 <input type="checkbox"/> 8	Color: (Choose from fruit colors above)

12. SEED CAVITY: (Sectioned apex to base)

<input type="checkbox"/> 2 <input type="checkbox"/> 3	CM LENGTH	<input type="checkbox"/> 2 <input type="checkbox"/> 5	CM WIDTH
<input type="checkbox"/> 1	1 = CONFORMS TO FRUIT SHAPE Location: 2 = NEAR APEX 3 = APEX ONLY	<input type="checkbox"/> 3	Placental Tissue: 1 = SPARSE 2 = MODERATELY ABUNDANT 3 = ABUNDANT
		<input type="checkbox"/> 1	Center Core: 1 = INCONSPICUOUS 2 = PROMINANT

13. FRUIT STALKS

<input type="checkbox"/> 1 <input type="checkbox"/> 0	CM LENGTH	<input type="checkbox"/> 0 <input type="checkbox"/> 3	CM DIAMETER
<input type="checkbox"/> 2	1 = ROUND 2 = IRREGULAR	<input type="checkbox"/> 1	1 = NOT TWISTED 2 = TWISTED
<input type="checkbox"/> 3	Texture: 1 = SOFT 2 = SPONGY 3 = HARD	<input type="checkbox"/> 1	1 = NOT TAPERED 2 = TAPERED
<input type="checkbox"/> 2	Surface: 1 = SMOOTH 2 = ROUGH 3 = SPINY	<input type="checkbox"/> 2	1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED
<input type="checkbox"/> 3	Texture: 1 = SOFT 2 = SPONGY 3 = HARD	<input type="checkbox"/> 3	Furrows: 1 = NONE 2 = SHALLOW 3 = DEEP
<input type="checkbox"/> 2	Detaches: 1 = EASILY 2 = WITH DIFFICULTY	<input type="checkbox"/> 3	Attachment End: 1 = NOT EXPANDED 2 = SLIGHTLY EXPANDED 3 = EXPANDED
		<input type="checkbox"/> 3	Color: 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

14. SEEDS

<input type="checkbox"/> 2 <input type="checkbox"/> 0	MM LENGTH	<input type="checkbox"/> 1 <input type="checkbox"/> 3	MM WIDTH	<input type="checkbox"/> 0 <input type="checkbox"/> 3	MM THICKNESS
<input type="checkbox"/> 1	Face Surface: 1 = SMOOTH 2 = WRINKLED 3 = SLIGHTLY PITTED 4 = SCALY 5 = CREASED	<input type="checkbox"/> 3	Color: 1 = WHITE 2 = CREAM 3 = BUFF 4 = BROWN		
<input type="checkbox"/> 1	Luster: 1 = DULL 2 = GLOSSY	<input type="checkbox"/> 1	Margin: 1 = STRAIGHT 2 = CURVED 3 = TWISTED		
<input type="checkbox"/> 1	Margin: 1 = ROUNDED 2 = WEDGE-LIKE				
<input type="checkbox"/> 2	Separation from pulp: 1 = EASY 2 = MODERATELY EASY 3 = DIFFICULT	<input type="checkbox"/> 2 <input type="checkbox"/> 3	GMS PER 100 SEEDS		
<input type="checkbox"/> 7 <input type="checkbox"/> 0 <input type="checkbox"/> 3	NO. SEEDS PER FRUIT <i>Average</i>	<input type="checkbox"/> 1	1 = NORMAL 2 = NAKED		

15. DISEASE RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 1	POWDERY MILDEW	<input type="checkbox"/> 1	CUCUMBER MOSAIC	<input type="checkbox"/> 1	SQUASH MOSAIC
<input type="checkbox"/> 1	WATERMELON MOSAIC	<input type="checkbox"/> ?	OTHER (Specify) <i>Storage Rots</i>		

16. INSECT RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

<input type="checkbox"/> 0	SQUASH BUG	<input type="checkbox"/> 0	SQUASH BORER	<input type="checkbox"/>	OTHER (Specify)
----------------------------	------------	----------------------------	--------------	--------------------------	-----------------

17. INDICATE A VARIETY MOST CLOSELY RESEMBLING THAT SUBMITTED FOR EACH CHARACTER

CHARACTER	VARIETY	CHARACTER	VARIETY
PLANT HABIT	<i>Connecticut Field</i>	FRUIT SHAPE	<i>Conn. Field</i>
LEAF TYPE	<i>Conn. Field</i>	FRUIT COLOR	<i>CONN. FIELD</i>
FLOWER TYPE	<i>Conn. Field</i>	CULINARY TYPE	<i>CONN. FIELD</i>

REFERENCES

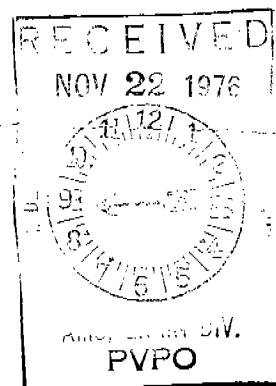
- Currence, T. M. 1954. Vegetable Crops Breeding, Department of Horticulture, University of Minnesota.
- Tapley, W.T., Enzie, W.D. and Van Eseltine, G. P., 1937. Vegetables of New York: The Cucurbits 1 (4). J.B. Lyon Company, Albany, New York.
- USDA Farmess Bulletin No. 1086. 1969. Growing Pumpkins and Squashes.
- Whitaker, T.W. and G.N. Davies. Cucurbits. Interscience Publications, Inc., New York, N.Y.

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18. COMMENTS

The differences in the Howden pumpkin , as compared to the Connecticut Field, are: the much richer, dark orange color, the heavy dark stem with branching base, which prevents it from breaking away from the fruit because it is rooted into the very flesh. As one person described it, a stem which grows into the pumpkin. It has thicker flesh, thus making it a heavier pumpkin and also the thicker flesh helps maintain a more even shape with fewer misshapen fruits. Its ribbing is more prominent and it has a much harder rind, giving it superior handling and keeping qualities. The Howden pumpkin keeps much better than any other pumpkin. While no disease resistance is credited to it, its excellent keeping quality may be due in part to a resistance to storage rot. As it is an open variety there is variation in size and some variation in shape, and prominence of ribbing. The other characteristics listed are quite stable. Color photos accompanying this show the color, stem and ribbing. Please file them with this description.



Application to 72106

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